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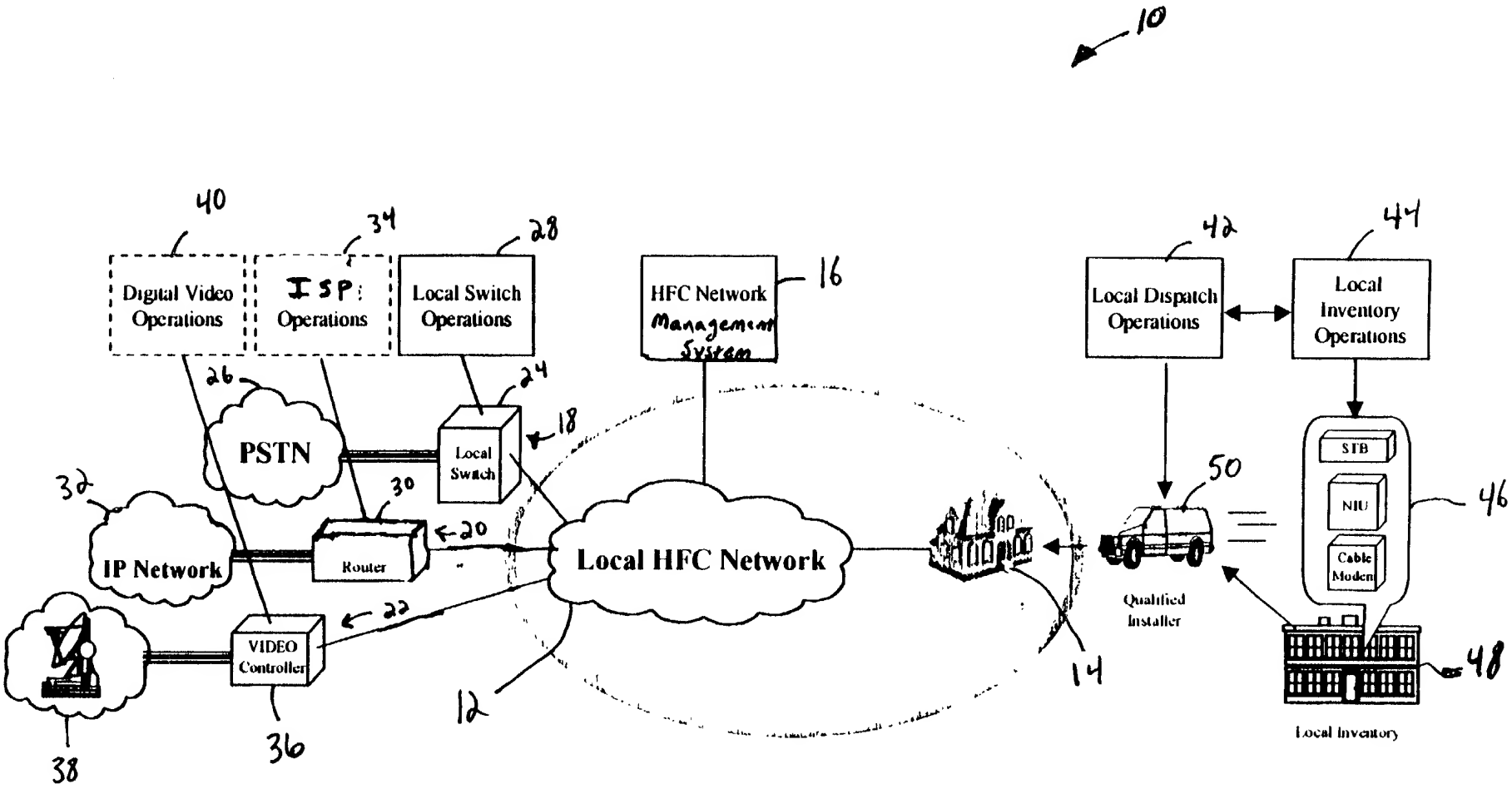

FIG. 1

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T0850 S82T5860

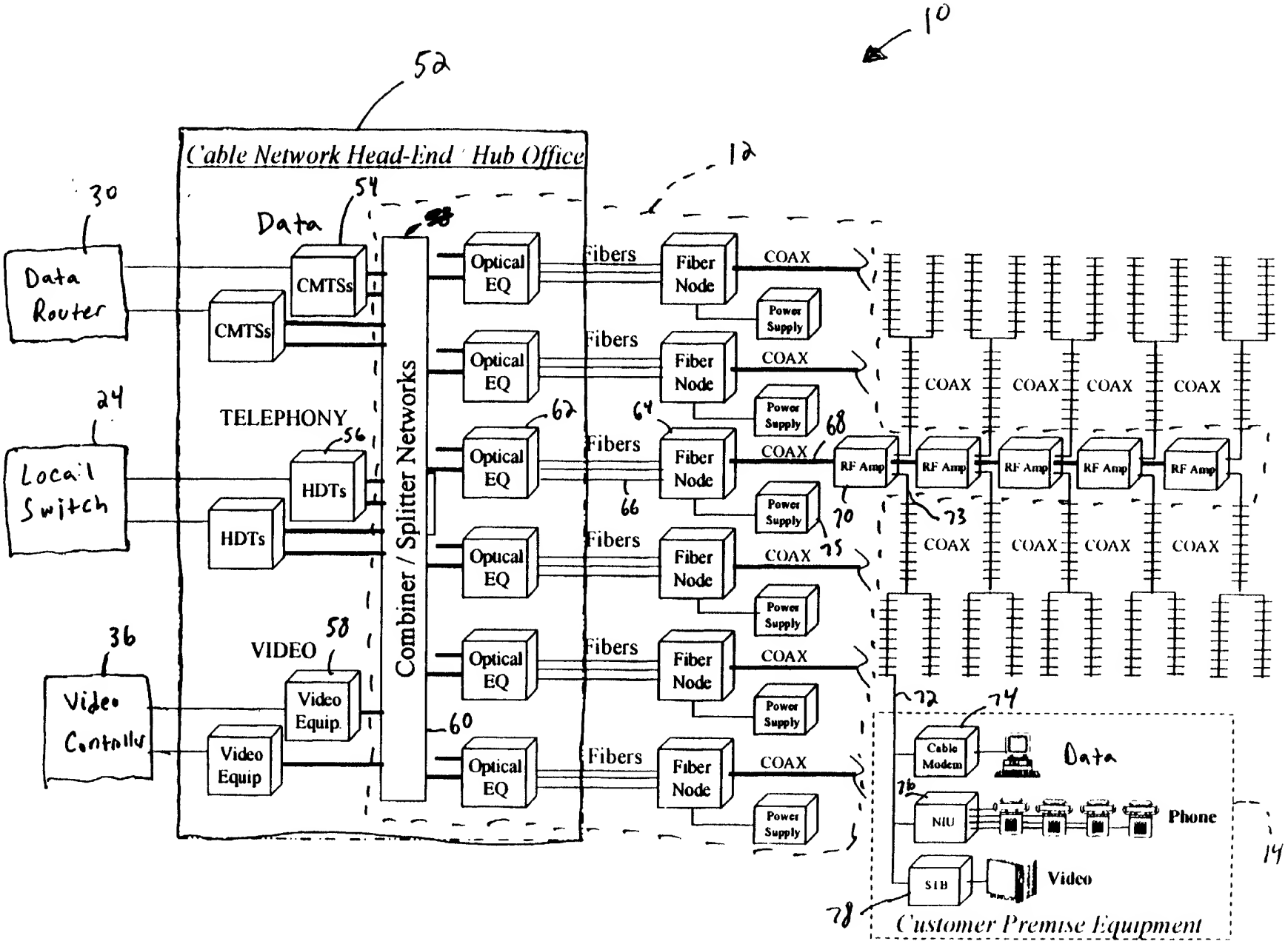

Fig 2

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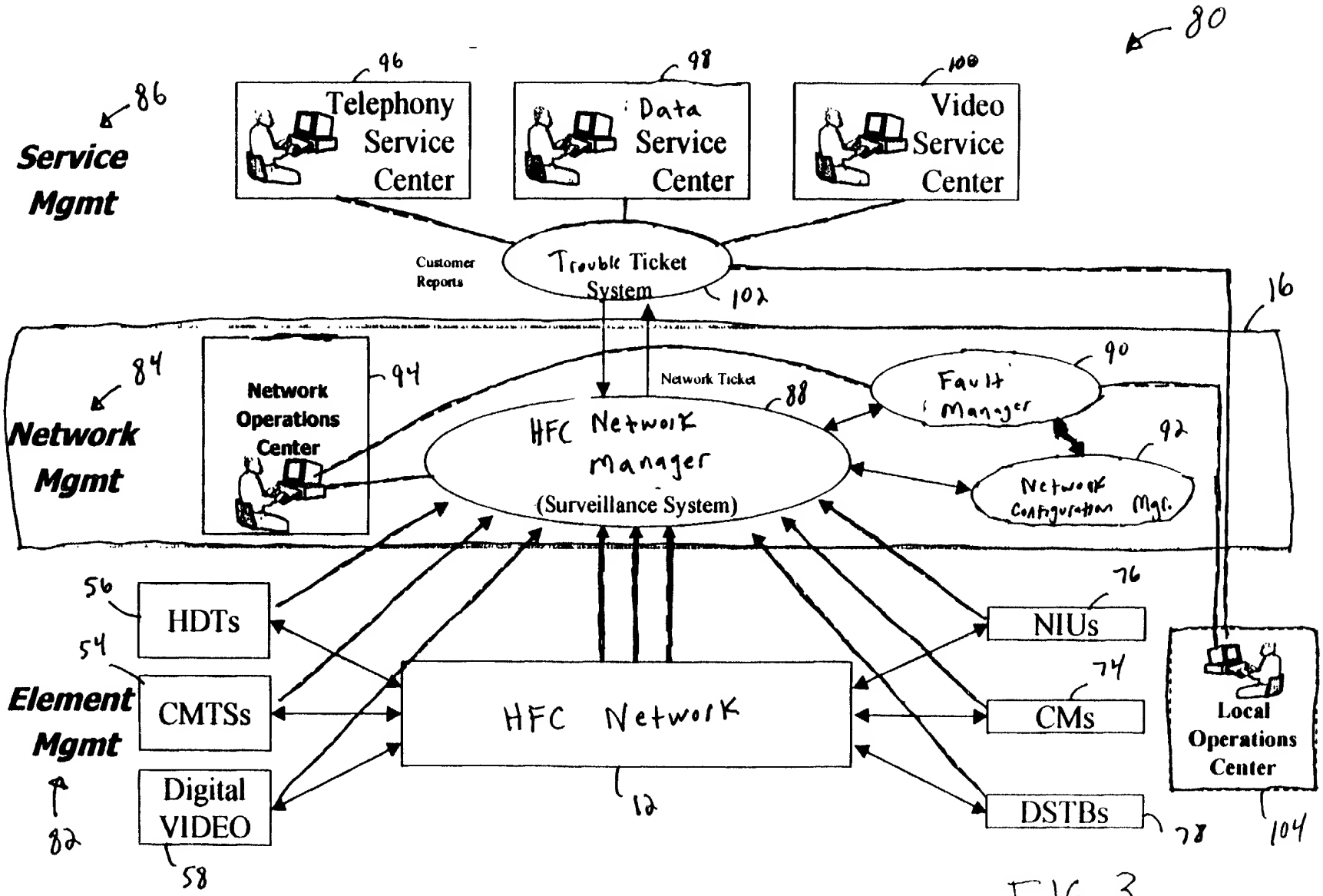
T08050 "SB27S660



F16.3

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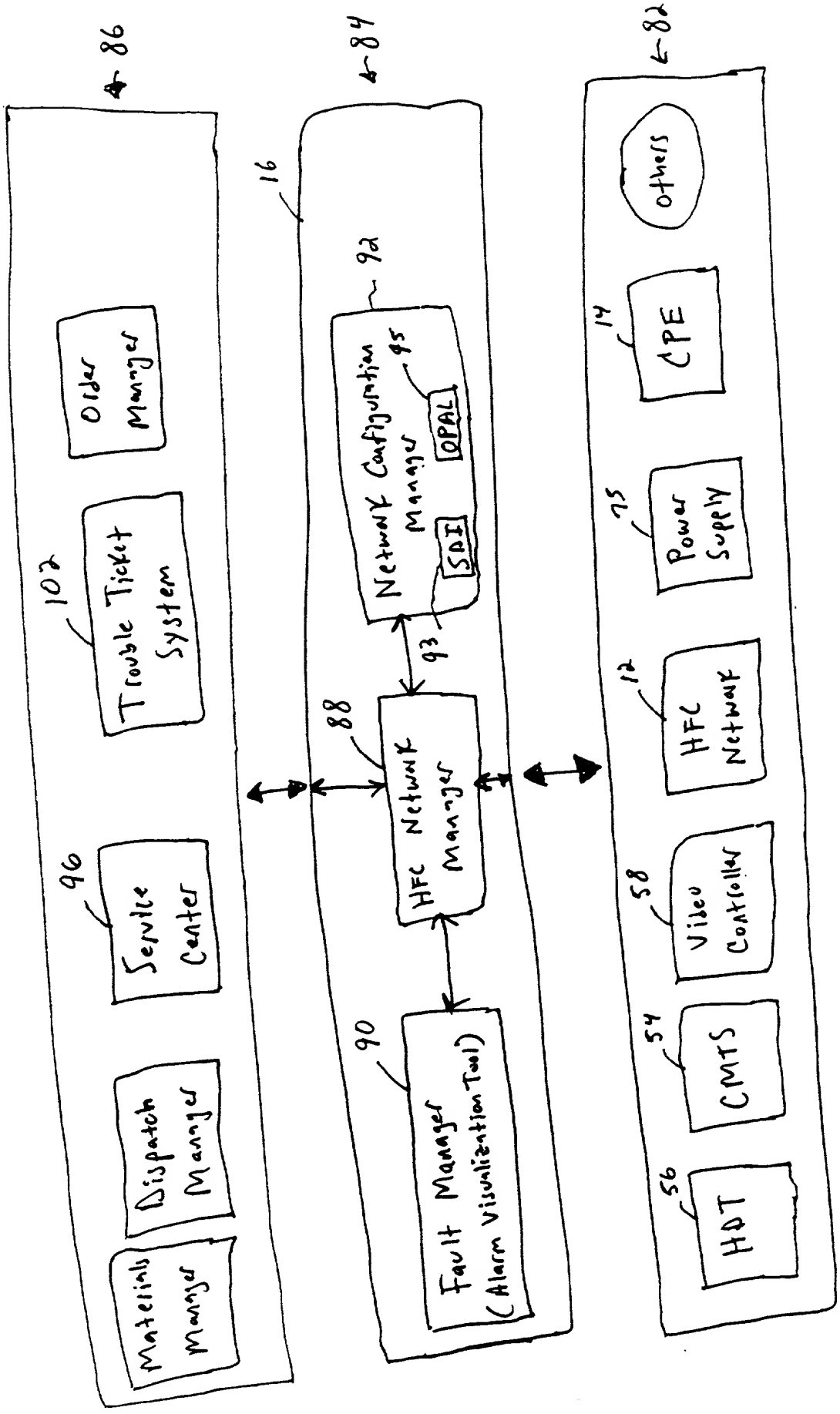
80
86
84
82
16
102
92
96
88
90
94
12
58
54
56
14
75
Materials Manager
Dispatch Manager
Service Center
Trouble Ticket System
Order Manager
Fault Manager (Alarm Visualization Tool)
HFC Network Manager
Network Configuration Manager
SDI
OPAL
HFC Network
Video Controller
CMTS
HDT
Power Supply
CPE
others

FIG. 4

FIG. 5.7 taken from J

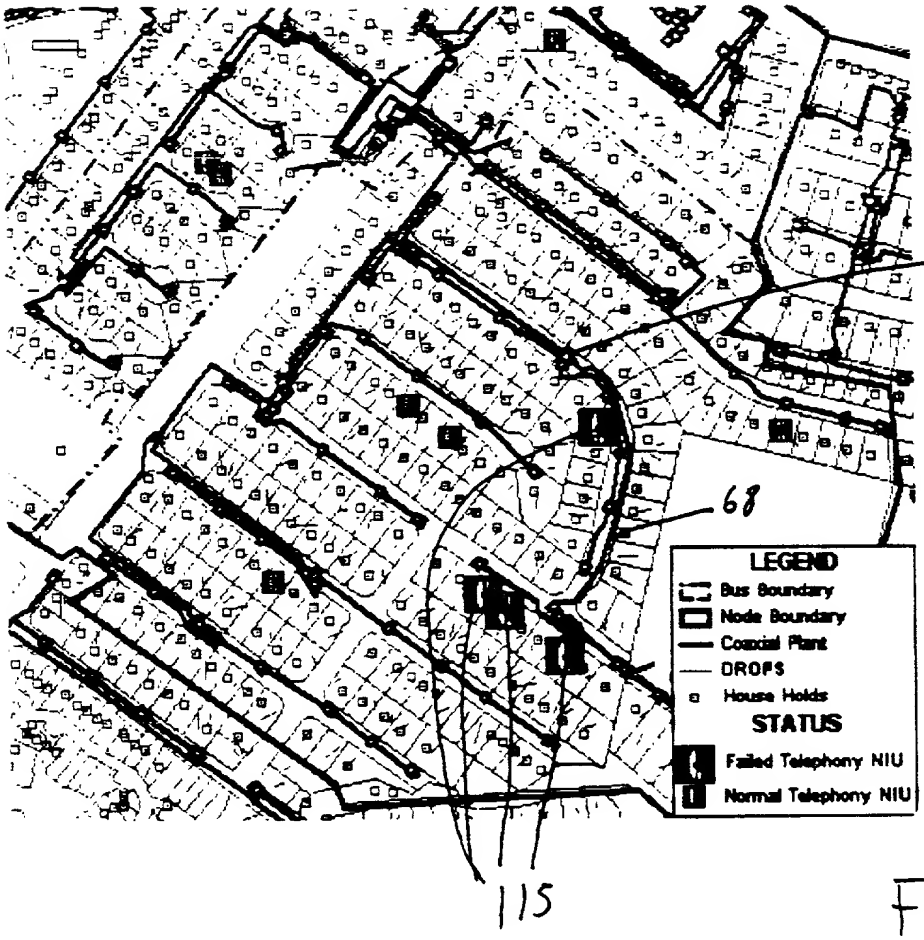

FIG. 5

3956168.3

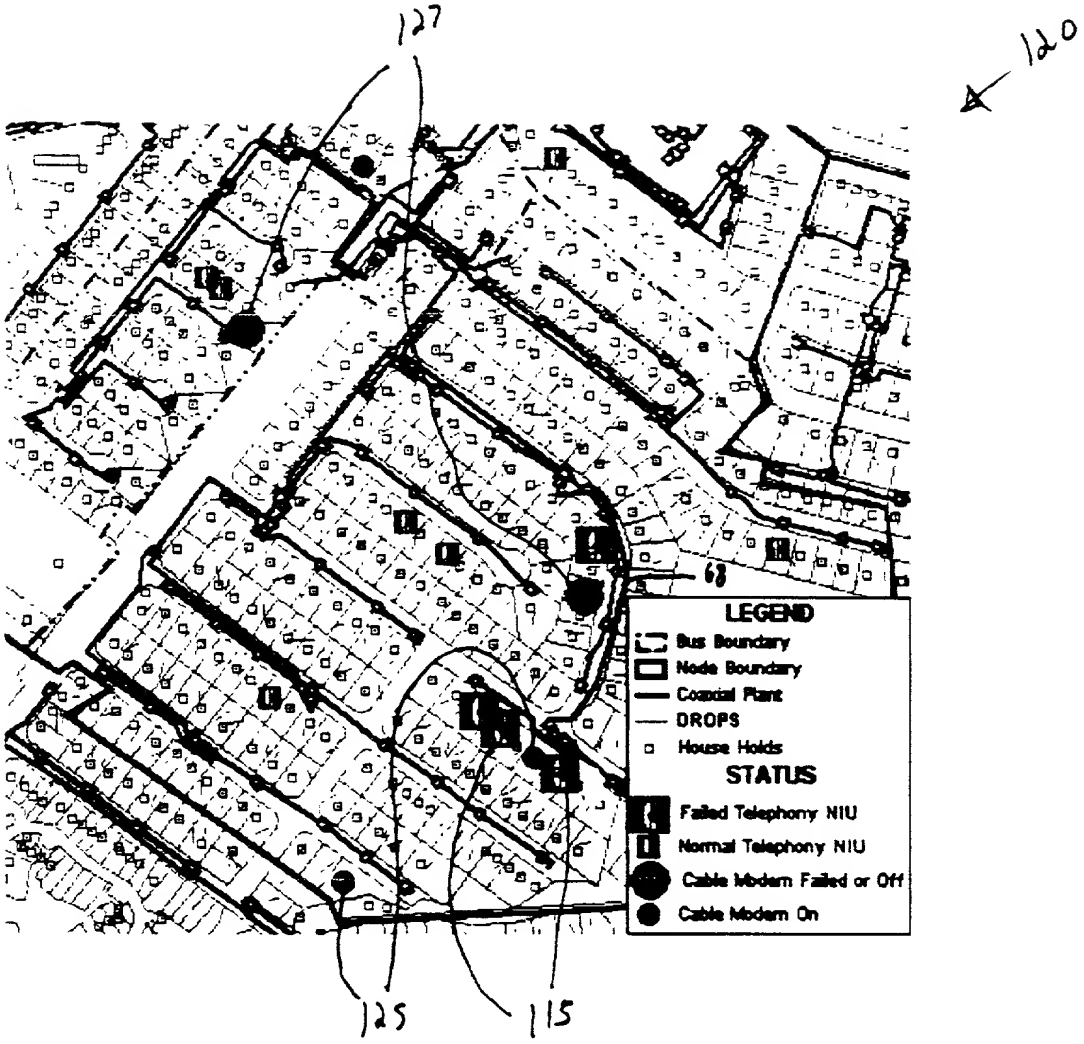

FIG. 6

09642985 - 082604

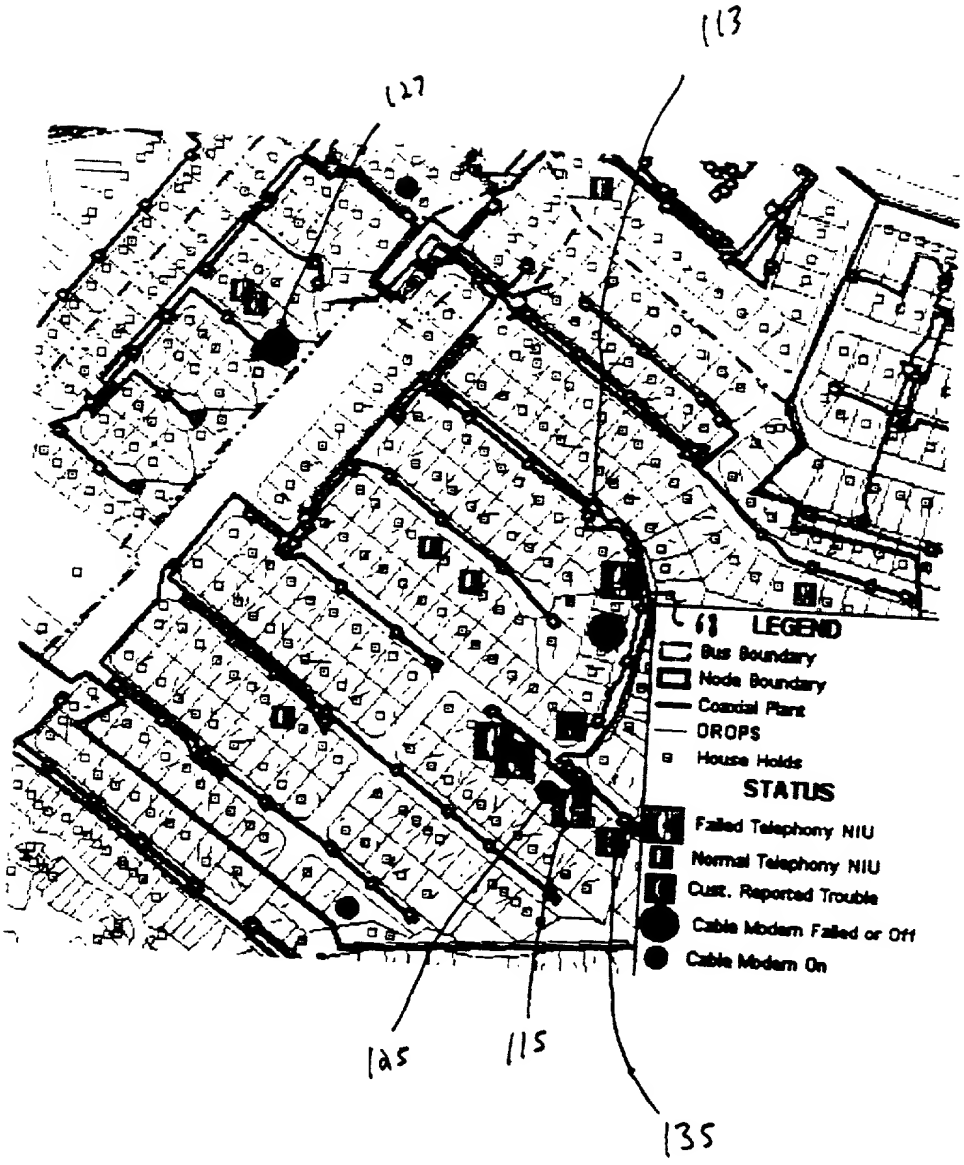
113
127
130
LEGEND
Bus Boundary
Node Boundary
Coaxial Plant
DROPS
House Holds
STATUS
Failed Telephony NIU
Normal Telephony NIU
Cust. Reported Trouble
Cable Modem Failed or Off
Cable Modem On
125
115
135

FIG. 7

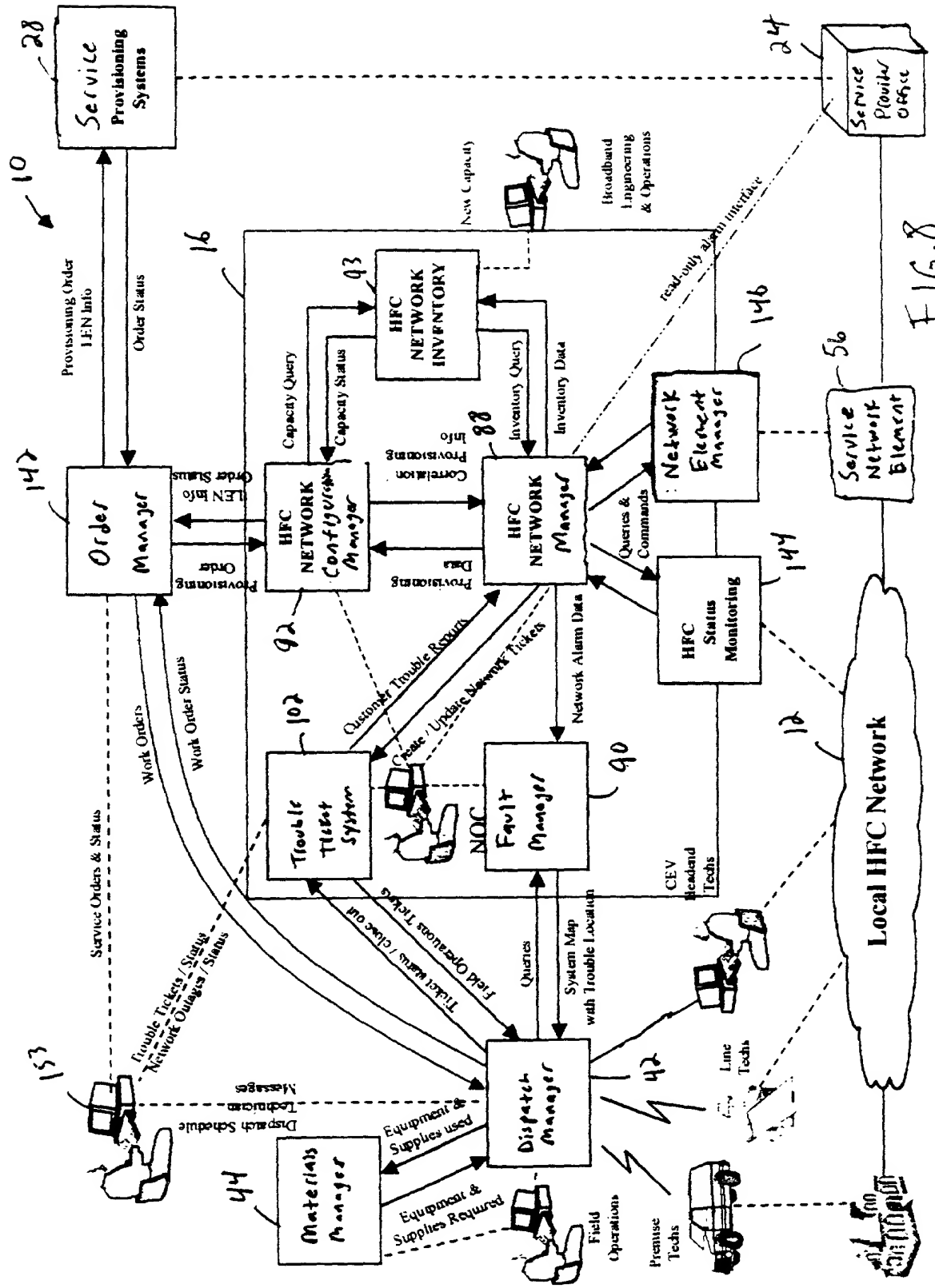
Service Provisioning Systems
28
10
Service Provider Office
24
Broadband Engineering & Operations
New Capacity
16
HFC NETWORK INVENTORY
93
Provisioning Order LEN Info
Order Status
Capacity Query
Capacity Status
Inventory Query
Inventory Data
read-only alarm interface
146
Network Element Manager
56
Service Network Element
88
Correlation Provisioning Info
147
Order Manager
LEN Info
Order Status
Provisioning Order
HFC NETWORK Configuration Manager
HFC NETWORK Manager
Provisioning Data
Queries & Commands
92
144
HFC Status Monitoring
Customer Trouble Reports
Create / Update Network Tickets
Network Alarm Data
102
Trouble Ticket System
NOC
Fault Manager
90
12
Local HFC Network
Work Orders
Work Order Status
Service Orders & Status
Ticket status / close out
Field Operations Tickets
Queries
System Map with Trouble Location
CEV Headend Techs
Trouble Tickets / Status
Network Outages / Status
153
Dispatch Schedule
Technician Messages
Dispatch Manager
42
Line Techs
Equipment & Supplies used
Equipment & Supplies Request
Materials Manager
44
Field Operations
Premise Techs

FIG. 8

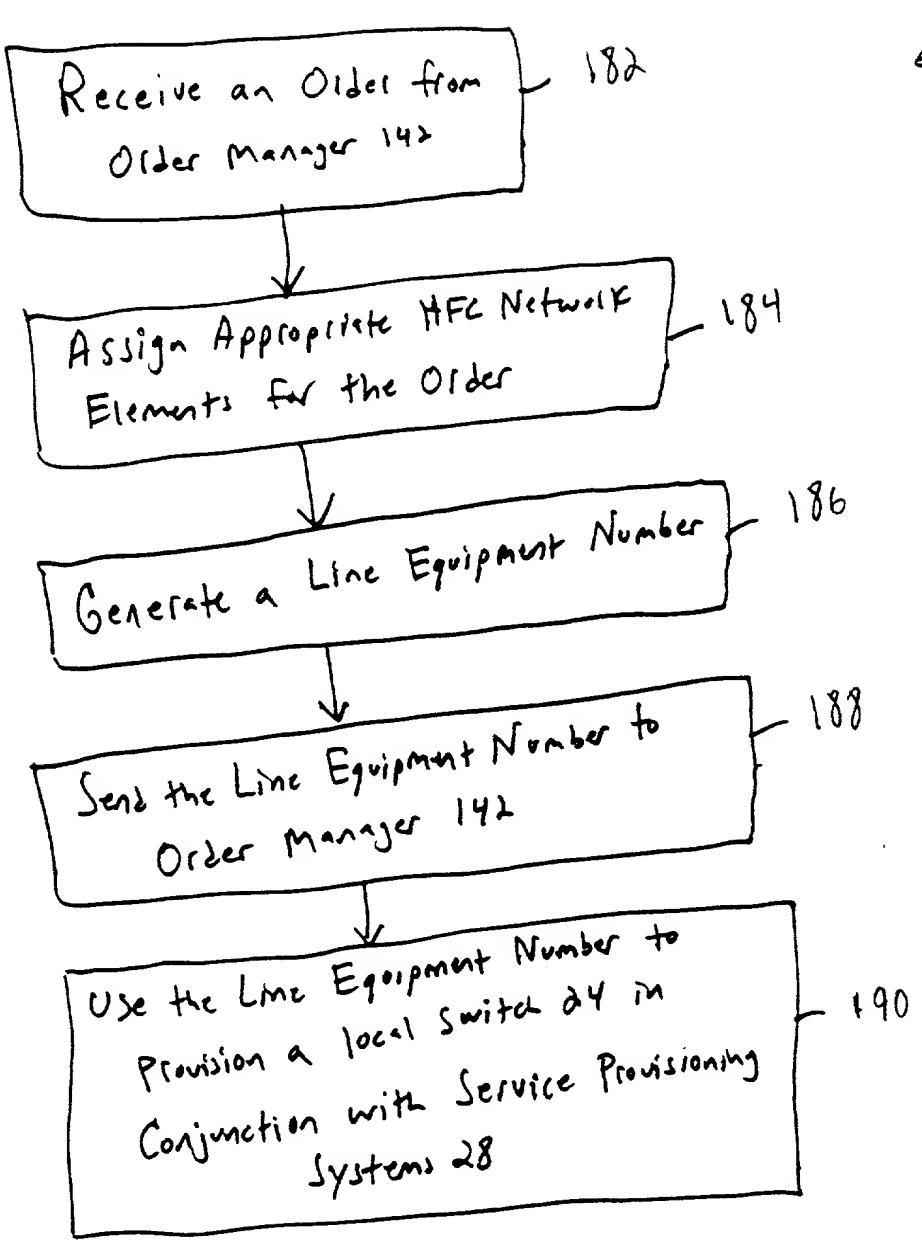
180
Receive an Order from Order Manager 142
182
Assign Appropriate HFC Network Elements for the Order
184
Generate a Line Equipment Number
186
Send the Line Equipment Number to Order Manager 142
188
Use the Line Equipment Number to Provision a local switch 24 in Conjunction with Service Provisioning Systems 28
190

FIG. 9

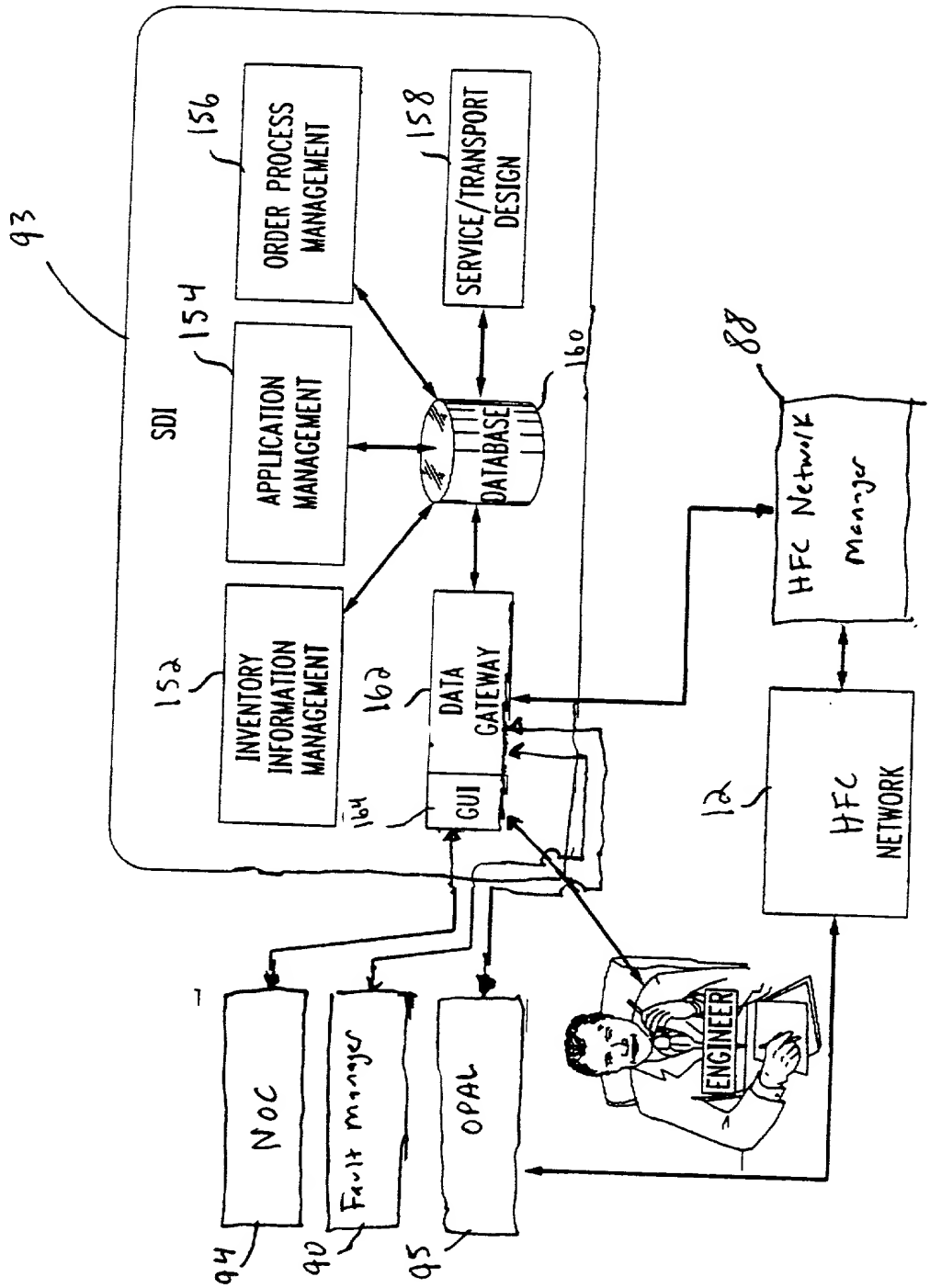
93
SDI
156
ORDER PROCESS MANAGEMENT
158
SERVICE/TRANSPORT DESIGN
154
APPLICATION MANAGEMENT
160
DATABASE
152
INVENTORY INFORMATION MANAGEMENT
162
DATA GATEWAY
164
GUI
88
HFC Network Manager
12
HFC NETWORK
ENGINEER
NOC
94
Fault manager
90
OPAL
95

FIG. 10

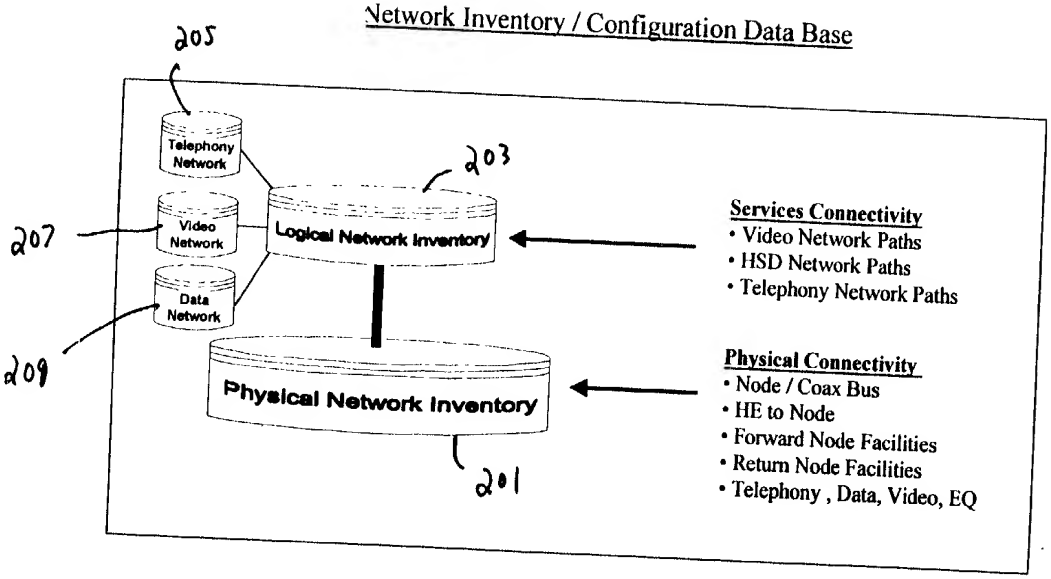

FIG. 11

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